

ABSTRACT OF THE DISCLOSURE

To provide a CO₂ incubator capable of accurately
controlling the CO₂ gas concentration in an incubation space
5 and quickly coping with a sudden change of CO₂ gas
concentrations in the incubation space.

A CO₂ gas sensor 6 for detecting the CO₂
concentration in an incubation space S, a control panel for
setting a CO₂ gas concentration, a CO₂ gas cylinder 10 and
10 electromagnetic switching valve 9 for supplying CO₂ gas into
the incubation space S, and a CO₂ gas concentration
controller 11 for controlling the electromagnetic switching
valve 9 are used in which the controller 11 executes
operations of proportion, proportion and integration, or
15 proportion, integration, and differentiation in accordance
with a deviation between the CO₂ gas concentration in the
incubation space S and a CO₂ gas concentration set value,
calculates the CO₂ gas supply time and the stop time for unit
time to the incubation space S, and supplies CO₂ gas to the
20 incubation space S from the CO₂ gas cylinder 10 in accordance
with the calculated supply time and stop time.